



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/633,698
Source: OIPC
Date Processed by STIC: 8-13-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/633, 698</u>
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ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/633,698

DATE: 08/13/2003

TIME: 08:30:44

Input Set : A:\1581.0770001.seqlist.txt
 Output Set: N:\CRF4\08132003\J633698.raw

```

3 <110> APPLICANT: Quinn, Conrad P
4           Foster, Keith A
5           Chaddock, John A
7 <120> TITLE OF INVENTION: Methods and Compounds for the Treatment of Mucus
Hypersecretion
9 <130> FILE REFERENCE: 1581.0770001
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/633,698
C--> 11 <141> CURRENT FILING DATE: 2003-08-05
11 <150> PRIOR APPLICATION NUMBER: 09/763,669
12 <151> PRIOR FILING DATE: 1999-08-25
14 <150> PRIOR APPLICATION NUMBER: PCT/GB99/02806
15 <151> PRIOR FILING DATE: 1999-08-25
17 <150> PRIOR APPLICATION NUMBER: GB 9818548.1
18 <151> PRIOR FILING DATE: 1998-08-25
20 <160> NUMBER OF SEQ ID NOS: 8
22 <170> SOFTWARE: PatentIn version 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 23
26 <212> TYPE: PRT
27 <213> ORGANISM: Influenza virus
29 <400> SEQUENCE: 1
31 Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly
32 1           5           10           15
35 Met Ile Asp Gly Trp Tyr Gly
36           20
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 12
41 <212> TYPE: PRT
42 <213> ORGANISM: Substance P peptide sequence
44 <400> SEQUENCE: 2
46 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Cys
47 1           5           10
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 12
52 <212> TYPE: PRT
53 <213> ORGANISM: Substance P peptide sequence with N-terminal Cys
55 <400> SEQUENCE: 3
57 Cys Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met
58 1           5           10
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 4
63 <212> TYPE: PRT
64 <213> ORGANISM: Factor Xa
67 <220> FEATURE:

```

*Does Not Comply
Corrected Diskette Needed*

*→ Invalid response
see item 10 on error
summary sheet.*

→ Same

RAW SEQUENCE LISTING DATE: 08/13/2003
PATENT APPLICATION: US/10/633,698 TIME: 08:30:44

Input Set : A:\1581.0770001.seqlist.txt
Output Set: N:\CRF4\08132003\J633698.raw

68 <221> NAME/KEY: MISC_FEATURE
69 <222> LOCATION: (4)..(4)
70 <223> OTHER INFORMATION: specific cleavable peptide bond
72 <400> SEQUENCE: 4
74 Ile Glu Gly Arg
75 1
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 5
80 <212> TYPE: PRT
81 <213> ORGANISM: Enterokinase
84 <220> FEATURE:
85 <221> NAME/KEY: MISC_FEATURE
86 <222> LOCATION: (5)..(5)
87 <223> OTHER INFORMATION: specific cleavable peptide bond
89 <400> SEQUENCE: 5
91 Asp Asp Asp Asp Lys .
92 1 5
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 8
97 <212> TYPE: PRT
98 <213> ORGANISM: TEV protease
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: (2)..(3)
104 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: (5)..(5)
109 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
111 <220> FEATURE:
112 <221> NAME/KEY: MISC_FEATURE
113 <222> LOCATION: (7)..(8)
114 <223> OTHER INFORMATION: specific cleavable peptide bond
116 <400> SEQUENCE: 6
W--> 118 Glu Xaa Xaa Tyr Xaa Gln Ser Gly
119 1 5
122 <210> SEQ ID NO: 7
123 <211> LENGTH: 8
124 <212> TYPE: PRT
125 <213> ORGANISM: Precision
128 <220> FEATURE:
129 <221> NAME/KEY: MISC_FEATURE
130 <222> LOCATION: (6)..(7)
131 <223> OTHER INFORMATION: specific cleavable peptide bond
133 <400> SEQUENCE: 7
135 Leu Glu Val Leu Phe Gln Gly Pro
136 1 5
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/633,698

DATE: 08/13/2003
TIME: 08:30:44

Input Set : A:\1581.0770001.seqlist.txt
Output Set: N:\CRF4\08132003\J633698.raw

141 <212> TYPE: PRT
142 <213> ORGANISM: Thrombin
145 <220> FEATURE:
146 <221> NAME/KEY: MISC_FEATURE
147 <222> LOCATION: (4)..(5)
148 <223> OTHER INFORMATION: specific cleavable peptide bond
150 <400> SEQUENCE: 8
152 Leu Val Pro Arg Gly Ser
153 1 5

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/13/2003
PATENT APPLICATION: US/10/633,698 TIME: 08:30:45

Input Set : A:\1581.0770001.seqlist.txt
Output Set: N:\CRF4\08132003\J633698.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2,3,5

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/633,698

DATE: 08/13/2003
TIME: 08:30:45

Input Set : A:\1581.0770001.seqlist.txt
Output Set: N:\CRF4\08132003\J633698.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0